

M. ROBERT KESTENBAUM, LLC
PATENT AND TRADEMARK MATTERS

FACSIMILE TRANSMITTAL SHEET

TO:	PCT Legal Office Attn: Mr. SMOOT	FROM:	M. Robert Kestenbaum
COMPANY:	Commissioner for Patents	DATE:	July 7, 2004
FAX NUMBER:	(703) 308-6459	TOTAL NO. OF PAGES INCLUDING COVER:	20
PHONE NUMBER:	(703) 305 0045	SENDER'S REFERENCE NUMBER:	(Z) 00052 P US
RE:	Status Inquiry for Petition to Revive	YOUR REFERENCE NUMBER:	10/338,282

NOTES/COMMENTS:

Attention: Mr. Smoot - PCT Legal Office

Dear Mr. Smoot:

Per the instructions of the PCT Help Desk, I am faxing you a Status Inquiry for the above-mentioned Petition to Revive submitted by express mail on December 30, 2003, and received by the PCT/PTO Office per the acknowledgement post card included herewith. We note that the PCT Help Desk/Legal Office could find no record of receiving the Petition to Revive and there has been no decision to grant the Petition as yet. We would appreciate your assistance with locating the previously submitted Petition, ensuring that a decision is made on the petition, and ensuring that the application begins the examination process as soon as possible maintaining priority of the German priority applications that form the basis of PCT/EP01/07431.

Please contact us when you receive this status inquiry so that we may be kept informed of the status on this case.

Sincerely,



M. Robert Kestenbaum
Reg. No. 20,430

11011 BERMUDA DUNES NE
ALBUQUERQUE, NEW MEXICO USA 87111
PHONE (505) 323-0771
FAX (505) 323-0865

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Entry Into National Stage for PCT/EP01/07431
Claiming priority of German Patent Applications 100 32 599.8 filed July 7, 2000
and 101 26 698.7 filed May 31, 2001 when Petition to Revive PCT/EP01/07431 is
granted
Applicants: Peter GNAUCK et al.
US Patent Application 10/338,282
Attorney Docket (Z) 00052 P US

Mail Stop PCT
Attention: PCT Legal Office MR. SMOOT
PO Box 1450
Commissioner for Patents
Alexandria, Va. 22313-1450

STATUS INQUIRY

Dear Mr. Smoot:

Our office called the PCT Help Desk to follow-up on the Petition to Revive for Unintentional Abandonment that we sent to the PCT Legal Office (by express mail with an express mail certification) on December 30, 2003. We have received no response to that petition. The PCT Help Desk informed us that the PCT Office has no record of receiving our Petition to Revive and enclosures. We were instructed to fax you this Status Inquiry and documents at this fax number, together with proof of our December 30, 2003 submission and some of the enclosures initially submitted therewith.

Included with this facsimile you will find a copy of the express mail certification, the express mail label and return acknowledgement postcard received for our December 30, 2003 submission. The return postcard notes that the correspondence was received in the USPTO, with the notation: "DT06 Rec'd PCT/PTO 30 DEC 2003".

Also included with this submission is a copy of some of the documents (i.e., the Petition for Revival, the executed Inventors' Declaration, a copy of the Transmittal Letter (Z) 00052 P US
Gnauck
10/338,282
STATUS INQUIRY

to the United States, and a copy of the Preliminary Amendment) included in the original submission of December 30, 2003. We would appreciate your assistance in ensuring that our original submission is located, the Petition is considered, and that we do not get double-billed for this submission, since our records indicate that the fees were charged to our credit card when we filed the Petition originally. Given the number of pages in the submission of December 30, 2003, we will provide you with copies of the remaining documents under separate cover if your research reveals that the PTO cannot locate the documents originally submitted on December 30, 2003.

Please attempt to locate the original submission and process the Petition to Revive as quickly as possible so that we may continue examination of PCT/EP01/07431 claiming priority of German Patent Applications 100 32 599.8 and 101 26 698.7.

We look forward to receiving a current status update on this case, and desire that the examination process be initiated as soon as possible.

Thank you in advance for your assistance in this matter.

Respectfully Submitted,



M. Robert Kestenbaum
Reg. No. 20,430
11011 Bermuda Dunes NE Albuquerque, NM 87111
Phone (505) 323-0771 Fax (505) 323-0865

I hereby certify this correspondence is being submitted to the PCT Legal Office, Commissioner for Patents, Alexandria, Va. 22313-1450 by facsimile transmission on July 7, 2004, fax number (703) 308-6459.



M. Robert Kestenbaum

(Z) 00052 P US
Gnauck
10/338,282
STATUS INQUIRY

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s): Gnauck et al.

Docket No.

(Z) 00052 P US

Serial No.

PCT/EP01/07431

Filing Date

29 June 2001

Examiner

N/A

Group Art Unit

N/A


Invention: **Detector for Varying Pressure Ranges, and Electron Microscope With a Corresponding Detector**

I hereby certify that the following correspondence:

Petition to Revive an Unintentionally Abandoned International Application as per Transmittal Letter*(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

December 30, 2003*(Date)*M. Robert Kestenbaum*(Typed or Printed Name of Person Mailing Correspondence)**(Signature of Person Mailing Correspondence)*ER 445923598 US*("Express Mail" Mailing Label Number)***ER 445923598 US****Note: Each paper must have its own certificate of mailing.**

 ER 445923598 US		EXPRESS MAIL UNITED STATES POSTAL SERVICE®		Customer Copy Label 11-B September 2002	
ORIGIN (POSTAL USE ONLY)				Post Office To Addressee	
PO ZIP Code	Day of Delivery	Flat Rate Envelope	Employee Signature		
Date In	<input type="checkbox"/> Next <input type="checkbox"/> Second	Postage	Employee Signature		
Mo. Day Year	<input type="checkbox"/> 12 Noon <input checked="" type="checkbox"/> 3 PM	Return Receipt Fee	Employee Signature		
Time in	Military	COD Fee	Employee Signature		
<input type="checkbox"/> AM <input type="checkbox"/> PM	<input type="checkbox"/> 2nd Day <input type="checkbox"/> 3rd Day	Insurance Fee			
Weight	Int'l Alpha Country Code	Total Postage & Fees			
lbs. ozs.	Acceptance Clerk Initials				
No Delivery					
<input type="checkbox"/> Weekend <input type="checkbox"/> Holiday					
FROM: (PLEASE PRINT) PHONE ()					
M Robert Kestenbaum 11011 Bermuda Dunes NE Albuquerque, NM 87111 505 333 0771					
FOR PICKUP OR TRACKING CALL 1-800-222-1811 www.usps.com					
PRESS HARD. You are making 3 copies.					
DELIVERY (POSTAL USE ONLY)					
Delivery Attempted <input type="checkbox"/> AM <input type="checkbox"/> PM Mo. Day Year Delivery Date Time Mo. Day Year Delivery Date Time					
CUSTOMER USE ONLY					
PAYMENT BY ACCOUNT Express Mail Corporate Acct. No. <input type="checkbox"/>					
Federal Agency Acct. No. or Postal Service Acct. No.					
NO DELIVERY <input type="checkbox"/> Weekend <input type="checkbox"/> Holiday					
TO: (PLEASE PRINT) PHONE ()					
Mail Stop 101 Legal PO Box 1400 Commissioner for Patents Alexandria, Va					
ZIP + 4 2 2 3 1 3 + 1 4 5 0					

DT06 Rec'd PCT/PTO 30 DEC 2003

Re: PCT/EP01/07431 claiming priority of German Applications 100 32 599.8 and 101 26 698.7
Title: Detector for Varying Pressure Ranges, and Electron Microscope with a Corresponding Detector
Applicants GNAUCK et al.
Attorney Docket (Z) 00052-P US

Documents for Entry into the National Stage as per transmittal, Certified English Translation, Executed Inventors' Declaration, Assignment, First Preliminary Amendment, Substitute Specification with Marked up Version, General Authorization to charge additional fees to deposit account, Petition to Revive an Unintentionally Abandoned PCT and Statement Regarding Abandonment, 2 sheets of formal drawings, PTO Form 2038 authorizing charging credit card, Express Mail Certification for December 30, 2003 - Mail Label No. ER445923598US.

MAILED & CERTIFIED
ON 12/30/2003

PTO/SB/64/PCT (06-03)

Approved for use 12/31/2003. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PETITION FOR REVIVAL OF AN INTERNATIONAL APPLICATION FOR PATENT**DESIGNATING THE U.S. ABANDONED UNINTENTIONALLY UNDER 37 CFR 1.137(b)**Docket Number
(Optional)

(Z) 00052PUS

First Named Inventor: Peter Gnauck

International (PCT) Application No.: PCT/EP01/07431

U.S. Application No.: 10/338,282
(if known)

Filed: 29 June 2001

Title: Detector for Varying Pressure Ranges, and Electron Microscope with a
Corresponding Detector

Attention: PCT Legal Staff

Mail Stop PCT

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

The above-identified application became abandoned as to the United States because the fees and documents required by 35 U.S.C. 371(c) were not filed prior to the expiration of the time set in 37 CFR 1.494(b) or (c) or 1.495(b) or (c) as applicable. The date of abandonment is the day after the date on which the 35 U.S.C. 371(c) requirements were due. See 37 CFR 1.494(g) or 1.495(h).

APPLICANT HEREBY PETITIONS FOR REVIVAL OF THIS APPLICATION

NOTE: A grantable petition requires the following items:

- (1) Petition fee
- (2) Proper reply
- (3) Terminal disclaimer with disclaimer fee which is required for all international applications having an international filing date before June 8, 1995; and
- (4) Statement that the entire delay was unintentional.

1. Petition fee

☐ Small entity- fee \$ _____ (37 CFR 1.17(m)). Applicant claims small entity status.
See 37 CFR 1.27.

☒ Other than small entity - fee \$ 1,330 (37 CFR 1.17(m))

2. Proper reply

A. The proper reply (the missing 35 U.S.C. 371(c) requirement(s)) in the form of
- The national fee - \$ 1,080 (identify type of reply):

* Fees paid and reply submitted in addition to national fee set forth
in the attachment to this Petition.

☐ has been filed previously on _____.

☒ is enclosed herewith. * Attachment to this Petition is set forth in the
Form PTO-1390 Transmittal Letter dated December 30, 2003

[Page 1 of 2]

This collection of information is required by 37 CFR 1.137(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PCT 01/07431

US Serial Number 10/338,282

Atty Docket: (Z) 00052 P US

PTO/SB/64/PCT (06-03)

Approved for use through 12/31/2003. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

3. Terminal disclaimer with disclaimer fee

- ☒ Since this international application has an international filing date on or after June 8, 1995, no terminal disclaimer is required.
- ☐ A terminal disclaimer (and disclaimer fee (37 CFR 1.20(d)) of \$ _____ for a small entity or \$ _____ for other than a small entity) disclaiming the required period of time is enclosed herewith (see PTO/SB/63).

4. Statement. The entire delay in filing the required reply from the due date for the required reply until the filing of a grantable petition under 37 CFR 1.137(b) was unintentional.

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

December 30, 2003
Date

(505) 323-0771

Telephone Number

Reg. No. 20,430

Registration Number, if applicable



Signature

M. Robert Kestenbaum

Typed or Printed Name

11011 Bermuda Dunes NE

Address

Albuquerque, NM, USA 87111

Address

Enclosures: ☒ Response

☒ Fee Payment

☐ Terminal Disclaimer N/A

☐ _____

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Entry Into National Stage for PCT/EP01/07431
Subsequent Continuation Application of PCT/EP01/07431 claiming priority of
German Patent Applications 100 32 599.8 filed July 7, 2000 and 101 26 698.7
filed May 31, 2001 when Petition to Revive PCT/EP01/07431 is granted
Applicants: Peter GNAUCK et al.
US Patent Application 10/338,282
Attorney Docket (Z) 00052 P US

Mail Stop PCT Legal
PO Box 1450
Commissioner for Patents
Alexandria, Va. 22313-1450

Statement Regarding Unintentional Abandonment (Attachment A to the Petition to
Revive for Unintentional Abandonment)

Dear Sir or Madam:

Applicant filed a Continuation Application in the USPTO for this case on January 7, 2003, paying the basic Filing Fee, and noting that the International Bureau had communicated the text of the application. Applicant's attorney telephoned the USPTO and learned that the application had received US Serial Number 10/338,282, and a Notice to File Missing Parts would be forthcoming. Consequently, it was believed that the Continuation Application was in good condition and the copendency of the priority applications had been preserved. It was never intended that PCT/EP01/07431 become abandoned without filing in the United States and it was intended that copendency with PCT/EP01/07431 be preserved.

A Notice of Incomplete Filing was mailed on June 20, 2003 (rather than a Notice to File Missing Parts) noting that the application had not yet received a filing date.

Applicant would have immediately filed this Petition to Revive the Unintentionally Abandoned PCT Application at the time he learned there was a problem with

Attorney Docket (Z) 00052 P US
Gnauck et. al.

Attachment A to Petition to Revive for Unintentional Abandonment

copendency. However, the Notice of Incomplete Filing was received at the time that a serious medical situation arose and continued to be a major problem for Applicant's attorney and his wife, who is the Office Manager for this office. The entire period of abandonment was unintentional.

A Petition to Revive the Unintentionally Abandoned PCT Application is therefore submitted herewith, with the appropriate reply: payment of the basic fee for entering the National Stage, an executed Inventors' Declaration with payment of the Declaration Surcharge, a Certified English translation with payment of the Late Filing of English Translation Fee, a Substitute Specification, Marked-Up Specification noting the changes to the Certified English translation, and a Preliminary Amendment removing multiple dependencies and conforming the specification and claims to US style and practice. It is respectfully requested that this Petition to Revive PCT/EP01/07431 be granted.

Thank you in advance for considering and granting the Petition to Revive for Unintentional Abandonment included herewith, and for accepting this application for entry into National Stage and for examination.

Respectfully submitted,



M. Robert Kestenbaum

Reg. No. 20,430

11011 Bermuda Dunes NE Albuquerque, NM 87111

Phone (505) 323-0771

Fax (505) 323-0865

I hereby certify this correspondence is being submitted to the US Postal Service as Express Mail in an envelope with sufficient postage addressed to Mail Stop PCT Legal, PO Box 1450, Commissioner for Patents, Alexandria, Va. 22313-1450 on December 30, 2003. (Express Mail Label ER 445923598US)



M. Robert Kestenbaum

Attorney Docket (Z) 00052 P US
Gnauck et. al.

Attachment A to Petition to Revive for Unintentional Abandonment

Express Mail Label No.

Page 1 of 4

Docket No.
(Z) 00052 P US

Declaration and Power of Attorney For Patent Application

English Language Declaration

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name,

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

Detector for Varying Pressure Ranges, and Electron Microscope with a Corresponding Detector

the specification of which

(check one)

☐ is attached hereto.

☒ was filed on June 29, 2001 as United States Application No. or PCT International Application Number PCT/EP01/07431 and was amended on _____

(if applicable)

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application(s)

Priority Not Claimed

<u>100 32 599.8</u>	<u>Germany</u>	<u>7 July 2000</u>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
<u>101 26 698.7</u>	<u>Germany</u>	<u>31 May 2001</u>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	
_____	_____	_____	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	

I hereby claim the benefit under 35 U.S.C. Section 119(e) of any United States provisional application(s) listed below:

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

(Application Serial No.)

(Filing Date)

I hereby claim the benefit under 35 U. S. C. Section 120 of any United States application(s), or Section 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of 35 U.S.C. Section 112, I acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, C. F. R., Section 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application:

PCT/EP01/07431

7 July 2000

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

(Application Serial No.)

(Filing Date)

(Status)
(patented, pending, abandoned)

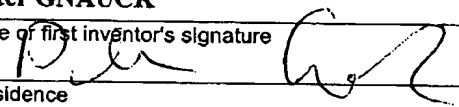
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

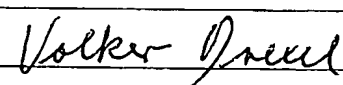
POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith. (list name and registration number)

M. Robert Kestenbaum Reg. No. 20,430

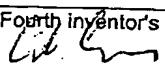
Send Correspondence to: M. Robert Kestenbaum
11011 Bermuda Dunes NE
Albuquerque, NM USA 87111

Direct Telephone Calls to: (name and telephone number)
M. Robert Kestenbaum (505) 323-0771 Fax (505) 323-0865

Full name of sole or first inventor Peter GNAUCK	
Sole of first inventor's signature 	Date October 28, 2003
Residence Glaserstrasse 4, D-72764 Reutlingen, Germany	
Citizenship German	
Post Office Address Glaserstrasse 4, D-72764 Reutlingen, Germany	

Full name of second inventor, if any Volker DREXEL	
Second inventor's signature 	Date November 21, 2003
Residence Danzingerstrasse 3 , D-89551 Königsbrunn, Germany Amselweg 6 / Drel	
Citizenship German	
Post Office Address Danzingerstrasse 3 , D-89551 Königsbrunn, Germany Amselweg 6 / Drel	

Full name of third inventor, if any	
Third inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

Full name of fourth inventor, if any Erik ESSERS	
Fourth inventor's signature 	Date October September / 21 / 2003
Residence Lachnerstrasse 6, D-76131 Karlsruhe, Germany	
Citizenship German	
Post Office Address Lachnerstrasse 6, D-76131 Karlsruhe, Germany	

Full name of fifth inventor, if any	
Fifth inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

Full name of sixth inventor, if any	
Sixth inventor's signature	Date
Residence	
Citizenship	
Post Office Address	

FORM PTO-1390 (Modified)
(REV. 11-2000) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

ATTORNEY DOCKET NUMBER

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

(Z) 00052 P US

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR
10/338,282INTERNATIONAL APPLICATION NO.
PCT/EP01/07431INTERNATIONAL FILING DATE
29/06/2001PRIORITY DATE CLAIMED
7 July 2000

TITLE OF INVENTION

Detector for Varying Pressure Ranges, and Electron Microscope with a Corresponding Detector

APPLICANT(S) FOR DO/EO/US

Gnauck et. al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☒ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☒ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 20 below concern document(s) or information included:

13. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☒ A substitute specification.
18. ☐ A change of power of attorney and/or address letter.
19. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825.
20. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. ER 445923598 US
23. ☒ Other items or information:

General Authorization to Charge Fees and Acknowledgement Postcard

PTO 2038 authorizing charging a credit card for all fees and Express Mail Certification

Petition to Revive an Unintentionally Abandoned PCT and Statement Regarding Abandonment (Attachment A)

2 sheets of drawings and Marked-up Specification showing changes to the Certified English Translation

U.S. APPLICATION NO. (IF KNOWN, SEE 3) 10/338,282		INTERNATIONAL APPLICATION NO. PCT/EP01/07431		ATTORNEY'S DOCKET NUMBER (Z) 00052 P US	
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24. The following fees are submitted:

BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :				CALCULATIONS PTO USE ONLY	
<input checked="" type="checkbox"/> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO				\$1080.00	
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO				\$920.00	
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO				\$770.00	
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)				\$730.00	
<input type="checkbox"/> International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)				\$100.00	
ENTER APPROPRIATE BASIC FEE AMOUNT =				\$1,080.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than months from the earliest claimed priority date (37 CFR 1.492 (e)). <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30				\$130.00	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE		
Total claims	21 - 20 =	1	x \$18.00	\$18.00	
Independent claims	2 - 3 =	0	x \$86.00	\$0.00	
Multiple Dependent Claims (check if applicable). <input type="checkbox"/>				\$0.00	
TOTAL OF ABOVE CALCULATIONS =				\$1,228.00	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$0.00	
SUBTOTAL =				\$1,228.00	
Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492 (f)). <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30				\$130.00	
TOTAL NATIONAL FEE =				\$1,358.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). <input checked="" type="checkbox"/>				\$40.00	
TOTAL FEES ENCLOSED =				\$2,728.00	
				Amount to be refunded	\$
				charged	\$

a. ☐ A check in the amount of _____ to cover the above fees is enclosed.

b. ☐ Please charge my Deposit Account No. _____ in the amount of _____ to cover the above fees.


c. ☒ The Director is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. **11-0665**

d. ☒ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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 SIGNATURE

M. Robert Kestenbaum
 NAME

20,430
 REGISTRATION NUMBER

12-30-2003
 DATE

NOTE: TOTAL (\$2,728) INCLUDES \$1,330 FOR PETITION TO REVIVE FOR UNINTENTIONAL ABANDONMENT FEE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re: Entry Into National Stage for PCT/EP01/07431
PCT/EP01/07431 claiming priority of German Patent Applications 100 32 599.8
filed July 7, 2000 and 101 26 698.7 filed May 31, 2001 to be included in response
with Petition to Revive PCT/EP01/07431
Applicants: Peter GNAUCK et al.
Attorney Docket (Z) 00052 P US

Mail Stop PCT Legal
PO Box 1450
Commissioner for Patents
Alexandria, Va. 22313-1450

Preliminary Amendment

Dear Sir or Madam:

Please amend the above-identified application. A Certified English Translation, a Substitute Specification, and Marked-Up Version of the Certified English Translation are included with this filing. The purpose of the Substitute Specification and Preliminary Amendment is to conform the specification and claims to US style and practice and to remove multiple dependencies.

A complete set of the amended claims is set forth on the following pages.

We claim:

1. A ~~[[D]]~~detector for varying pressure ranges in a specimen chamber of a particle beam device, wherein the detector is arranged and adapted for the detection of electrons and ~~also for the detection of light~~.
2. The ~~[[D]]~~detector according to claim 1, wherein the detector comprises a scintillator (3) to which a high voltage potential is applicable, and a photodetector (4), and the scintillator (3) ~~is made being made~~ at least partially permeable to light.
3. The ~~[[D]]~~detector according to claim 2, wherein the scintillator (3) ~~has~~ comprises an electrically conductive coating in grid or strip form.
4. The ~~[[D]]~~detector according to claim 2, wherein the scintillator (3) ~~has~~ comprises an electrically conductive coating ~~which~~ that is permeable to light.
5. The ~~[[D]]~~detector according to ~~one of claims 1-4~~ claim 1, wherein further comprising a light guide (2) ~~is provided~~.
6. The ~~[[D]]~~detector according to claim 5, wherein the light guide (2) ~~consists of~~ comprises scintillator material.
7. The ~~[[D]]~~detector according to ~~one of claims 2-5~~ claim 2, wherein a further comprising a collector electrode (5) ~~is provided~~, connected before the scintillator.
8. The ~~[[D]]~~detector according to claim 7, wherein the scintillator (3) and the collector electrode (5) ~~can have controllable potentials applied~~ are controllable potentials, independently of each other.
9. The ~~[[D]]~~detector according to claim 7 ~~or 8~~, wherein the collector electrode (5) ~~can have a variable potential applied~~ is arranged and adapted for application of a variable potential, positive with respect to the sample potential.

10. The [[D]] detector according to ~~one of claims 7-9~~ claim 7, wherein ~~current amplifiers are connected to the collector grid (5) and/or to the conductive coating (4) of the scintillator (3)~~ the scintillator comprises a conductive coating, further comprising current amplifiers that are connected to at least one of the collector grid and to the conductive coating of the scintillator.
11. The [[D]] detector according to ~~one of claims 8-10~~ claim 8, wherein the conductive coating (4) of the scintillator (3) is arranged and adapted to have has a potential applied with respect to the collector electrode (5) so that a gas cascade arises between the collector electrode (5) and the conductive coating (4).
12. The [[D]] detector according to ~~one of claims 1-11~~ claim 1, wherein further comprising a ~~an~~ needle electrode (24) or an electrode of thin wires is ~~provided on the~~ a sample side of the scintillator.
13. The [[D]] detector according to ~~one of claims 1-12~~ claim 1, wherein ~~an electrode (20, 22) surrounding the scintillator~~ further comprising a scintillator and an electrode surrounding the scintillator is ~~provided~~ in a form of a pot ~~which~~ that tapers conically to a point on the a side remote from the scintillator and ~~has~~ comprises an opening (21, 23) on the a side remote from the scintillator.
14. A [[P]] particle beam device, particularly a scanning electron microscope, ~~with~~ comprising a sample chamber (29), ~~the chamber pressure of which is variable~~ with a variable pressure, ~~with~~ an electron optical system for the production of a focused electron beam (PE) and ~~with~~ a detector according to ~~one of claims 1-13~~ claim 1.
15. The [[P]] particle beam device according to claim 14, further comprising a pressure meter (12) ~~is provided~~ in the sample chamber and so that the application of potential to the scintillator takes place in dependence on the pressure in the sample chamber (29).

16. The [[P]]particle beam device according to claim 15, wherein that is arranged and adapted so that at pressures in the sample chamber below a changeover pressure between 10^{-3} hPa and 10^{-2} hPa, a potential of greater than 1 kV positive with respect to the potential of the sample is applied to the scintillator, and at pressures in the sample chamber above the changeover pressure, a potential quantitatively smaller than 1 kV, ~~preferably smaller than 0.5 kV~~, positive with respect to the potential of the sample is applied to the scintillator.
17. The [[P]]particle beam device according to claim 15 or 16, wherein the sign of the potential of the collector electrode ~~may be reversed~~ is reversible.
18. The [[P]]particle beam device according to claim 16 or 17, wherein that is arranged and adapted so that at pressures above the changeover pressure in the sample chamber, a potential of 0 V or ± 400 V with respect to the potential of the sample is applied to the collector electrode.
19. A [[M]]method for the detection of the products of reciprocal effects in a particle beam device under variable pressure conditions, wherein comprising the step that under high vacuum conditions the light arising when the products of interaction strike a scintillator, and the step that at ambient pressure or low vacuum conditions, the light arising when the products of interaction interact with gas molecules, are detected with the same photodetector (1) and then evaluated.
20. The [[M]]method according to claim 19, wherein comprising the step of using a detector according to one of claims 1-13 is used claim 1.
21. (New) The particle beam device according to claim 16, wherein the potential is quantitatively smaller than 0.5 kV.

Remarks

Please calculate the Filing Fee on the basis of the claims set forth in this Preliminary Amendment. Please continue examination on the basis of the Substitute Specification and claims submitted herewith.

Respectfully submitted,



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*** RX REPORT ***

RECEPTION OK

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